RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/552,909B_

Source: _1Fwo_

Date Processed by STIC: _1/19/07_

ENTERED

IFWO

RAW SEQUENCE LISTING   DATE: 01/19/2007
PATENT APPLICATION: US/10/552,909B   TIME: 16:26:48

Input Set : N:\KEISHA\10552909b.txt
Output Set: N:\CRF4\01192007\J552909B.raw

```
   3 <110> APPLICANT: Xiao, Yingxao
   4         Feng, Xin-Hua
   6 <120> TITLE OF INVENTION: Gene expression suppression agents
   8 <130> FILE REFERENCE: 132848-01US
  10 <140> CURRENT APPLICATION NUMBER: US 10/552,909B
  11 <141> CURRENT FILING DATE: 2005-10-13
  13 <160> NUMBER OF SEQ ID NOS: 9
  15 <210> SEQ ID NO: 1
  16 <211> LENGTH: 27
  17 <212> TYPE: DNA
  18 <213> ORGANISM: Human
  20 <220> FEATURE:
  21 <221> NAME/KEY: primer_bind
  22 <223> OTHER INFORMATION: Primer to amplify upstream promoter containing Box D in the
Human 5S RNA
  23        gene
  25 <300> PUBLICATION INFORMATION:
  26 <310> PATENT DOC NO: PCT WO 2004/106488 A2
  27 <311> PATENT FILING DATE: 2003-05-12
  28 <312> PUBLICATION DATE: 2004-12-09
  30 <400> SEQUENCE: 1
  31 aacggatcca aaacgctgcc tccgcga   27
  33 <210> SEQ ID NO: 2
  34 <211> LENGTH: 25
  35 <212> TYPE: DNA
  36 <213> ORGANISM: Human
  38 <220> FEATURE:
  39 <221> NAME/KEY: primer_bind
  40 <223> OTHER INFORMATION: Downstream reverse primer used to amplify the upstream
promoter containing
  41        Box D in the Human 5S RNA gene. The sequence contains a Pst1 site at 7 bp
  42        upstream of the transcription site.
  44 <400> SEQUENCE: 2
  45 tagacgctgc aggaggcgcc tggct    25
  51 <210> SEQ ID NO: 3
  52 <211> LENGTH: 269
  53 <212> TYPE: DNA
  54 <213> ORGANISM: Human
  56 <220> FEATURE:
  57 <221> NAME/KEY: promoter
  58 <223> OTHER INFORMATION: Calculated BamHI-PstI fragment of the upstream promoter
containing Box D
  59        in the Human 5S gene. Cloned into pBluescript-KS to give plasmid pPPVI.
  61 <400> SEQUENCE: 3
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62 ggatccaaaa cgctgcctcc gcgacagggc ggaggacgga gggcgtccca ggatcgtggg 60
64 ccctgggcct gacgcctcgg agcactccct gctccgagcg ggcccgatgt ggtggaagct 120
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     66 cgggagcgcg ggagccgggg gaaggccgcg ggcagccgtc ggggtccccc gatccgagcc 180
     68 ccgcggcccc gggctggcgg tgtcggctgc aatccggcgg gcacggccgg ccgggctggg 240
     70 ctcttggggc agccaggcgc ctccttcag 269
     72 <210> SEQ ID NO: 4
     73 <211> LENGTH: 84
     74 <212> TYPE: DNA
     75 <213> ORGANISM: Human
     77 <220> FEATURE:
     78 <221> NAME/KEY: terminator
     79 <223> OTHER INFORMATION: Comprises Box A, C and terminator of the human 5S RNA gene.
Serves as a
     80        top strand to anneal with SEQ ID NO: 5 to create a double-stranded DNA molecule.
     82 <400> SEQUENCE: 4
     84 agaagacgaa gctaagcagg gtcgggcctg gttagtactt ggatgggaga ccgcctggga 60
     86 ataccgggtg ctgtaggctt tttg 84
     89 <210> SEQ ID NO: 5
     90 <211> LENGTH: 88
     91 <212> TYPE: DNA
     92 <213> ORGANISM: Human
     94 <220> FEATURE:
     95 <221> NAME/KEY: terminator
     96 <223> OTHER INFORMATION: Comprises Box A, C and terminator of the human 5S RNA gene.
Serves as a
     97        top strand to anneal with SEQ ID NO: 4 to create a double-stranded DNA molecule.
     99 <400> SEQUENCE: 5
    100 tcgacaaaaa gcctacagca cccggtattc ccaggcggtc tcccatccaa gtactaacca 60
    102 ggcccgaccc tgcttagctt cgtcttct 88
    105 <210> SEQ ID NO: 6
    106 <211> LENGTH: 367
    107 <212> TYPE: DNA
    108 <213> ORGANISM: Human
    110 <220> FEATURE:
    111 <221> NAME/KEY: promoter
    112 <223> OTHER INFORMATION: A BamHI-SalI fragment of plasmid pPPV2 containing the
upstream promoter
    113        containing Box D, A, C and the terminator of the Human 5S gene.
    115 <400> SEQUENCE: 6
    116 ggatccaaaa cgctgcctcc gcgacagggc ggaggacgga gggcgtccca ggatcgtggg 60
    118 ccctgggcct gacgcctcgg agcactccct gctccgagcg ggcccgatgt ggtggaagct 120
    120 cgggagcgcg ggagccgggg gaaggccgcg ggcagccgtc gggggtcccc gatccgagcc 180
    122 ccgcggcccc gggctggcgg tgtcggctgc aatccggcgg gcacggccgg ccgggctggg 240
    124 ctcttggggc agccaggcgc ctccttcagg aattcgatag aagacgaagc taagcaggt 300
    126 cgggcctggt tagtacttgg atgggagacc gcctgggaat accgggtgctg taggctttt 360
    128 tgtcgac 367
    130 <210> SEQ ID NO: 7
    131 <211> LENGTH: 51
    132 <212> TYPE: DNA
    133 <213> ORGANISM: Human
    135 <220> FEATURE:
    136 <221> NAME/KEY: misc_RNA
    137 <222> LOCATION: Positioned with PstI at the 5' end and BbsI at the 3' end.
    138 <223> OTHER INFORMATION: Contains designed siRNA sequence. Serves as a top strand to
anneal with
```

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     139        SEQ ID NO: 8 to create a double-stranded DNA molecule. The "n" bases represent
     140        any of the a, g, c, or t bases.
     142 <400> SEQUENCE: 7
W--> 143 gcnnnnnnnn nnnnnnnnnn ntttcggnnn nnnnnnnnnn nnnnnntttt t 51
     146 <210> SEQ ID NO: 8
     147 <211> LENGTH: 59
     148 <212> TYPE: DNA
     149 <213> ORGANISM: Human
     151 <220> FEATURE:
     152 <221> NAME/KEY: misc_RNA
     153 <222> LOCATION: Positioned with PstI at the 5' end and BbsI at the 3' end.
     154 <223> OTHER INFORMATION: Contains designed siRNA sequence. Serves as a top strand to
anneal with
     155        SEQ ID NO: 7 to create a double-stranded DNA molecule. The "n" bases represent
     156        any of the a, g, c, or t bases.
     158 <400> SEQUENCE: 8
W--> 159 agctaaaaan nnnnnnnnnn nnnnnnnncc gaaannnnnn nnnnnnnnnn nnngctgca 59
     161 <210> SEQ ID NO: 9
     162 <211> LENGTH: 399
     163 <212> TYPE: DNA
     164 <213> ORGANISM: Human
     166 <220> FEATURE:
     167 <221> NAME/KEY: misc_structure
     168 <222> LOCATION: A BamHI-SalI fragment of plasmid pPPV2 containing the siRNA design.
     169 <223> OTHER INFORMATION: The second stretch of the 19 "n" bases are complementary and
reverse to
     170        the first stretch. The "n" bases represent any of the a, g, c, or t bases.  .
     172 <400> SEQUENCE: 9
     173 ggatccaaaa cgctgcctcc gcgacagggc ggaggacgga gggcgtccca ggatcgtggg 60
     175 ccctgggcct gacgcctcgg agcactccct gctccgagcg ggcccgatgt ggtggaagct 120
     177 cgggagcgcg ggagccgggg gaaggccgcg ggcagccgtc gggggtcccc gatccgagcc 180
     179 ccgcggcccc gggctggcgg tgtcggctgc aatccggcgg gcacggccgg ccgggctggg 240
W--> 181 ctcttggggc agccaggcgc ctccttcagc nnnnnnnnnn nnnnnnnnnt ttcggnnnnn 300
     183 nnnnnnnnnn nnnnttttta gctaagcagg gtcgggcctg gttagtactt ggatgggaga 360
     185 ccgcctggga ataccgggtg ctgtaggctt tttgtcgac 399
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/19/2007
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,28,29,30
Seq#:7; N Pos. 31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46
Seq#:8; N Pos. 10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,35
Seq#:8; N Pos. 36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53
Seq#:9; N Pos. 271,272,273,274,275,276,277,278,279,280,281,282,283,284,285
Seq#:9; N Pos. 286,287,288,289,296,297,298,299,300,301,302,303,304,305,306
Seq#:9; N Pos. 307,308,309,310,311,312,313,314

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:2; Line(s) 40
Seq#:4; Line(s) 80
Seq#:5; Line(s) 97
Seq#:7; Line(s) 139

VERIFICATION SUMMARY   DATE: 01/19/2007
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L:143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:240
M:341 Repeated in SeqNo=9